



Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**PATENT**

Re: Attorney Docket No. Ovalekar 4

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Agere Systems Inc.

Application No./Patent No.: 09/847,922 Filed/Issued Date: 05/03/01

Entitled: Vector Tree Correlator For Variable Spreading Rates

Agere Systems Inc. Corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

States that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title, and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

In the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_, Frame \_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☒ A Chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Inventor(s) To: Lucent Technologies, Inc.  
The document was recorded in the United States Patent and Trademark Office at Reel 011792, Frame 0474, or for which a copy thereof is attached.
2. From: Lucent Technologies Inc. To: Agere Systems Guardian Corp.  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_, Fame \_\_\_\_, or for which a copy thereof is attached.
3. From: Agere Systems Guardian Corp. To: Agere Systems Inc.  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_, Fame \_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other document in the chain of title are attached.

[Note: A separate copy (i.e., the original assignment document or a true copy of the original documents) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: 6/22/05  
Customer No. 46900  
Mendelsohn & Associates, P.C.  
1500 John F. Kennedy Blvd., Suite 405  
Philadelphia, Pennsylvania 19102

Respectfully submitted,

Steve Mendelsohn  
Steve Mendelsohn  
Registration No. 35,951  
Attorney for Assignee  
(215) 557-6657



**EXECUTION COPY**

---

**PATENT ASSIGNMENT**

**by and between**

**LUCENT TECHNOLOGIES INC.**

**and**

**AGERE SYSTEMS GUARDIAN CORP.**

**Dated as of January 30, 2001**

---

## PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (this "Assignment"), effective as of January 30, 2001 (the "Effective Date"), is by and between Lucent Technologies Inc., a Delaware corporation, with offices at 600 Mountain Avenue, Murray Hill, New Jersey 07974, United States of America, ("ASSIGNOR") and Agere Systems Guardian Corp., a Delaware corporation, with offices at 555 Union Boulevard, Allentown, PA 18109, United States of America ("Agere Systems Guardian").

## RECITALS

A. WHEREAS, the Board of Directors of ASSIGNOR has determined that it is in the best interests of ASSIGNOR and its stockholders to separate ASSIGNOR's existing businesses into two independent businesses;

B. WHEREAS, ASSIGNOR presently owns or controls certain patents, patent applications, and invention submissions listed in the attached Appendices A and B (hereinafter "TRANSFERRED PATENTS") and;

C. WHEREAS, in furtherance of the foregoing separation, ASSIGNOR desires to transfer, assign, convey, deliver and vest all of its interests and rights in TRANSFERRED PATENTS for all countries, jurisdictions and political entities of the world, to and in Agere Systems Guardian;

NOW, THEREFORE, in consideration of the premises and for other good and valid consideration, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, agree as follows:

ASSIGNOR, subject to existing rights and licenses of third parties, does hereby assign, convey, transfer and deliver, and agrees to assign, convey, transfer and deliver to Agere Systems Guardian, its successors, assigns and legal representatives or nominees, ASSIGNOR's entire right, title and interest, for all countries, jurisdictions and political entities of the world, along with the right to sue for past infringement, to all TRANSFERRED PATENTS listed on Appendices A and B, and corresponding counterpart foreign patents and patent applications, with respect to which, and to the extent to which, ASSIGNOR now has or hereafter acquires the right to so assign, convey, transfer and deliver. Agere Systems Guardian recognizes that ASSIGNOR holds only bare legal title to the TRANSFERRED PATENTS listed in Appendix A (which lists the United States Patents and patent applications previously exclusively licensed to Lucent Technologies Microelectronics Guardian Corp.).

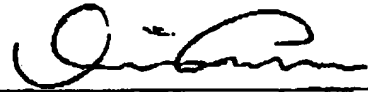
ASSIGNOR and ASSIGNEE recognize that the patents listed in Appendices A and B may inadvertently include patents that are owned by various subsidiaries of ASSIGNOR, including Agere, Inc., Ortel Corporation, Optimay Corporation, Herrmann Technology, Inc., and Enable Semiconductor, Inc. Ownership of such patents shall not be affected by this Patent

Assignment, and ASSIGNEE agrees that any such patents shall be deemed deleted from Appendices A and B.

ASSIGNOR agrees that, upon request it will, at any time without charge to Agere Systems Guardian, but at Agere Systems Guardian's expense, furnish all necessary documentation relating to or supporting chain of title, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for vesting title to TRANSFERRED PATENTS in Agere Systems Guardian, its successors, assigns and legal representatives or nominees; including but not limited to any acts which may be necessary, desirable or convenient for claiming said rights and for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in Agere Systems Guardian and its respective successors, assigns and legal representatives or nominees.

IN WITNESS WHEREOF, the parties have caused this PATENT ASSIGNMENT to be executed by their duly authorized representatives as of the Effective Date.

**LUCENT TECHNOLOGIES INC.**

By:   
Daniel P. McCurdy  
President, Intellectual Property Business

**AGERE SYSTEMS GUARDIAN CORP.**

By:   
Fred M. Romano  
President

Execution Copy

ACKNOWLEDGMENTS

STATE OF NEW JERSEY )

: ss:

COUNTY OF SOMERSET )

I CERTIFY that on January 30, 2001, Daniel P. McCurdy personally came before me and this person acknowledged under oath, to my satisfaction that:

a.) this person signed, sealed and delivered the attached Patent Assignment as President - Intellectual Property Business of Lucent Technologies Inc.; and

b.) this Patent Assignment was signed and made by Lucent Technologies Inc. as its voluntary act and deed by virtue of authority from its Board of Directors.



Name TAMORA ANNE HANNA  
Notary Public Notary Public of New Jersey  
My Commission Expires ~~Registered in Hunterdon County~~  
[Notarial Seal] My Commission Expires March 25, 2002

STATE OF FLORIDA )

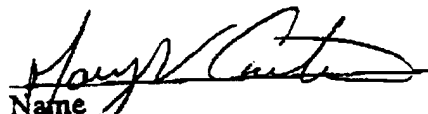
: ss:

COUNTY OF ORANGE )

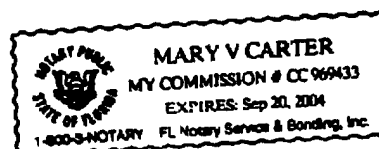
I CERTIFY that on January 31, 2001, Fred M. Romano personally came before me and this person acknowledged under oath, to my satisfaction that:

a.) this person signed, sealed and delivered the attached Patent Assignment as Vice President of Agere Systems Guardian Corp.; and

b.) this Patent Assignment was signed and made by Agere Systems Guardian Corp. as its voluntary act and deed by virtue of authority from its Board of Directors.



Name  
Notary Public  
My Commission Expires:  
[Notarial Seal]



## Transferred Patents (patent disclosures)

IDS No.	Inventors	Subject Matter
123447	Jong K Kim	Pulse Mode Power Supply High Data Rate Writer
123448	Jong K Kim	Bubble Power Supply Writer
123449	Jong K Kim	Stabilized High Band Width Differential Emitter Follower Amplifier
123450	John D Leighton; Sally A Doherty; Carl F Elliott	Look Ahead Write Precompensation
123451	David W Kelly; Jason P Brenden	Hard Drive Motor Soft Commutation
123453	Charles Walter Pearce; Robert John Griffin	Single-Sided Chanstop
123454	Thomas J. Krutsick	A Method Of Fabricating Complementary Self-Aligned Bipolar Transistors
123470	Isaiah O. Oladeji	Partial Via First Dual Damascene Scheme For Hybrid Low K Material
123471	Leonard Jay Olmer	Use Of In-Situ Particle Monitor In A High Density Plasma Deposition Tool
123472	Sailesh Mansinh Merchant; Minseok Oh; Deepak A Ramappa	Cooper Electroplating In Static Megasonic Bath
123473	Subramanian Karthikeyan; Sailesh Mansinh Merchant	Method of Reducing Intra-Level Capacitance
123475	Sailesh Mansinh Merchant; Minseok Oh	Use of Multiple Electrolytes During Copper Deposition
123478	Joseph M. Cannon; James A. Johanson; Philip D Mooney	Bar-coded Business Cards
123483	Philip D Mooney	Phone Line Detector for Bluetooth Dial-up Networking Gateway
123485	Deepak A Ramappa	Elemental Composition Based Defect Classification Scheme Using Energy Dispersive X-Ray Spectroscopy
123486	Nace Layadi; Alvaro Maury	A Pad Cleaning Procedure To Minimize Wafer Scratches During CMP.
123488	Ryan S Holmqvist; Steven E Strauss; William R Bullman	PHY Packet Stripping for Standard Wakeup Patterns
123494	Sailesh Chittipeddi	Method Of Fabricating A High Performance Bipolar Transistor In A CMOS Process Flow
123518	Sean Anthony Ramprashad; Carl-Erik Wilhelm Sundberg; Herve Taddei	Multi-Mode Unequal Error Protection
123529	Roger A Fratti	Tapering The Transconductance Of Each Stage To Match The Loss On The Input Transmission Line
123564	Bernard Lee Morris	Bi-Directional Buffers For Flip Chip Packages
123571	Sameer V. Ovalekar	Variable Length Vector Correlator For De-Spreading Data At Different Spreading Factors
123573	Richard Joseph McPartland; Ranbir Singh	Erase Gate For Single-Poly FLASH EEPROM Memory Cell
123577	Carl-Erik Wilhelm Sundberg; Emin Martinian	Multimode Decoding For Recovery Of Lost Packets
123578	Stefanos Kaxiras	Alphanumeric Keyboard For Mobile Telephones
123583	Richard George Stuby; Zheng Chen	FPGA Bit Stream Format
123585	Gang Huang; Zhenyu Wang	A Dual Mode Equalizer/Echo Canceller For CSMA Networks



# Delaware

PAGE 1

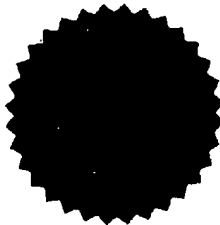
*The First State*

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"AGERE SYSTEMS GUARDIAN CORP.", A DELAWARE CORPORATION,  
WITH AND INTO "AGERE SYSTEMS INC." UNDER THE NAME OF "AGERE SYSTEMS INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-NINTH DAY OF AUGUST, A.D. 2002, AT 9 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY OF AUGUST, A.D. 2002.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Harriet Smith Windsor  
Harriet Smith Windsor, Secretary of State

3268412 8100M

AUTHENTICATION: 1959517

020545223

DATE: 08-29-02



STATE OF DELAWARE  
SECRETARY OF STATE  
DIVISION OF CORPORATIONS  
FILED 09:00 AM 08/29/2002  
020545223 - 3268412

**CERTIFICATE OF OWNERSHIP AND MERGER****OF**

**Agere Systems Guardian Corp.**  
(a Delaware corporation)

**INTO**

**Agere Systems Inc.**  
(a Delaware corporation)

**UNDER SECTION 253 OF THE GENERAL  
CORPORATION LAW OF THE STATE OF DELAWARE**

Agere Systems Inc., a corporation organized and existing under the laws of Delaware ("Corporation"), DOES HEREBY CERTIFY:

**FIRST:** The Corporation is the owner of all of the outstanding shares of common stock of Agere Systems Guardian Corp., which is also a business corporation of the State of Delaware.

**SECOND:** On August 22, 2002 the Subsidiary Governance Committee of the Board of Directors of the Corporation adopted the following resolution to merge Agere Systems Guardian Corp. into the Corporation:

**RESOLVED** that Agere Systems Guardian Corp., a Delaware corporation, shall be merged with and into Agere Systems Inc., a Delaware corporation, with Agere Systems Inc. being the surviving corporation, and Agere Systems Inc. shall thereupon assume all of the obligations of Agere Systems Guardian Corp."

**THIRD:** That the merger authorized hereby shall become effective as of 9:00 a.m. Eastern Standard Time on August 31, 2002.

Executed on August 22, 2002

**AGERE SYSTEMS INC.**

By Paul Bento  
Paul Bento, Vice President